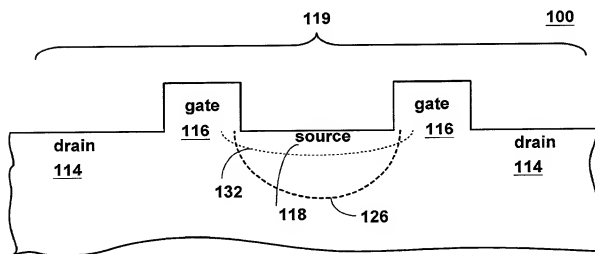
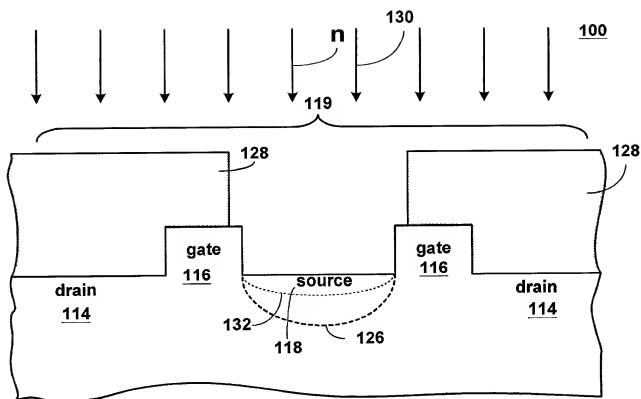


FIGURE 1B (PRIOR ART)



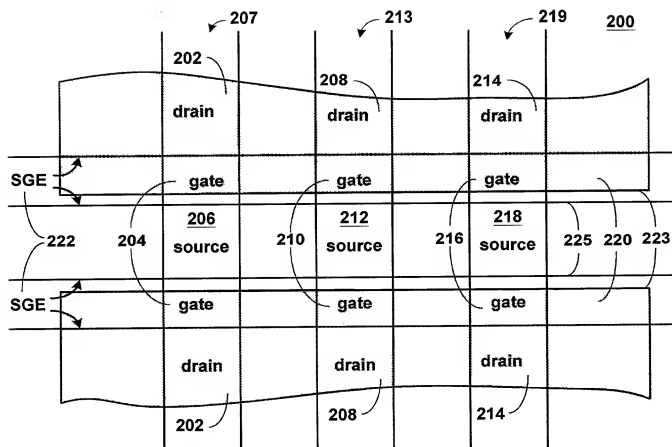


FIGURE 2A

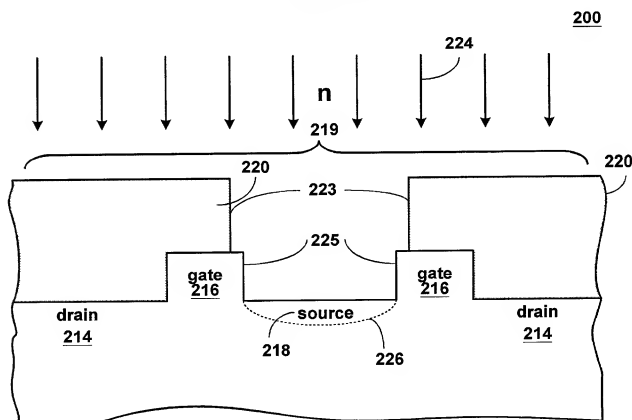


FIGURE 2B

10053256.011802

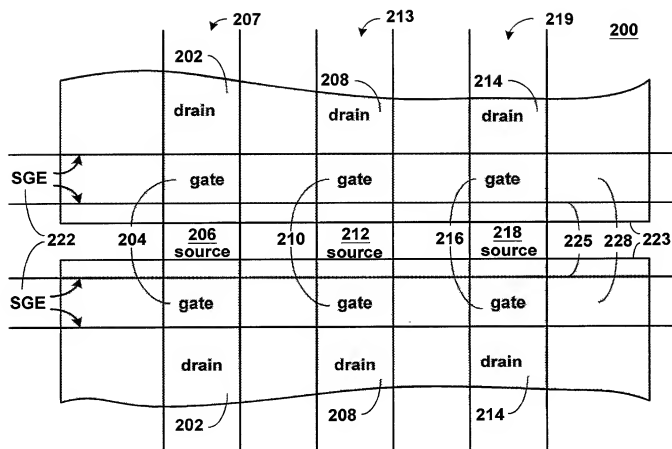


FIGURE 2C

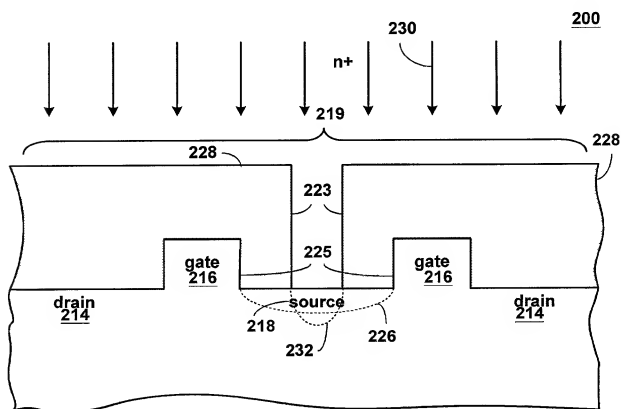


FIGURE 2D

10053256-011802



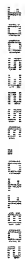


Figure 1 illustrates the steps of the proposed algorithm for finding a minimum spanning tree. The process starts with a graph with 6 nodes and 7 edges. The algorithm proceeds by selecting edges in increasing order of weight, ensuring no cycles are formed. The steps are as follows:

- (a) Initial graph with 6 nodes and 7 edges.
- (b) Select edge (1,2) with weight 1.
- (c) Select edge (2,3) with weight 1.
- (d) Select edge (3,4) with weight 1.
- (e) Select edge (4,5) with weight 1.
- (f) Select edge (5,6) with weight 1.
- (g) Select edge (1,3) with weight 2.
- (h) Select edge (2,4) with weight 2.
- (i) Select edge (3,5) with weight 2.
- (j) Select edge (4,6) with weight 2.
- (k) Select edge (1,4) with weight 3.
- (l) Final minimum spanning tree with total weight 10.

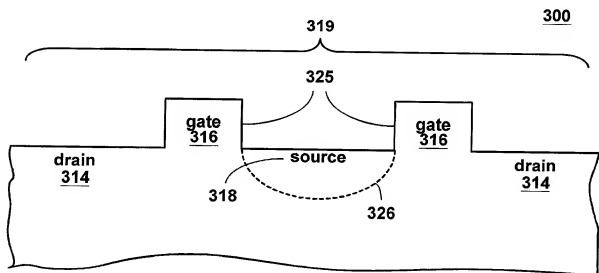


FIGURE 3C